

Title (en)

Circuitry including charge storage means for boosting a limited current supplied to a load.

Title (de)

Ein Ladungsspeichermittel enthaltender Stromkreis zum Verstärken eines begrenzten, eine Last speisenden Stromes.

Title (fr)

Circuit comprenant des moyens d'accumulation de charge pour renforcer un courant limité fourni à une charge.

Publication

EP 0064333 A1 19821110 (EN)

Application

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Priority

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Abstract (en)

The invention is applicable, for example, to fire or smoke detection circuitry where an integrated circuit (7) is separated by an appreciable cable impedance (2) from a remote current source (1). The source (1) provides a limited current which is normally sufficient to operate the integrated circuit (7), except when logic transitions occur requiring more than the amount of current available. Charge storage means (4), such as a capacitor, is charged from the source and discharges into the integrated circuit (7) to provide the additional current during logic transactions. Switching means (6) responsive to the charge storage means (4) is connected to the integrated circuit (7). In the event of disconnecting and reconnecting the current source (1), the switching means (6) isolates the charge storage means (4) from the integrated circuit (7) until sufficient charge has been stored. Specific embodiments respectively employ a programmable unijunction transistor (PUJ 1) and a Schmitt trigger circuit (D5, D6; R7-R12; TR2-TR4; and C3).

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IPC 8 full level

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CPC (source: EP)

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